482.U?
1875

Call. 487 - (1)
1875

Joseph Leidy

LEIDY'S DIARY CONTAINING NOTES AND COMMENTS ON THE MINERALOGICAL EXHIBITS IN THE BRITISH MUSEUM, AND THE LOUVRE IN PARIS

British Museum, May 14, 1875.

Opal. Best fine opal and glassy opal from Kimapan, M. A fine but small piece glassy opal marked E. Indies. Cut specimens of glassy opal from Faroe Is.

Best noble opal, from Czerwenitza, Hungary.

Good do. from Barcaes R., Queensland, Australia. Others from Honduras; and Ateus, not so good, from Iceland, Faroe Is. and Riva Argun, Irkutzk, Siberia. Rose Opal, Quincy, France.

Among the Hungarian specimens, a splendid harlequin Oval cut, about 10 lines long and set in a ring. A small specimen, lemon yellow variety, Oval about 8 lines long, set in a ring.

Agates. From many localities chiefly Oberstein, Antigua, Uraguay, S. A., Faroe Is. Best Carnelian, India. A beautiful translucent, light blue chalcedony from Bretyan, Transylvania, and Kapnitz, Hungary, also from Schneeberg, Saxony.

Chrysoprase, mostly Kosemütz, Silesia. Only other locality represented by a good colored sp^n from Tursan, Bohemia.

Heliotrope mostly E. Indies, Bombay, & Vendyah Mts., Hindostan.

A handsome dark green variety of Opal marked "Prase Opal" in cut & uncut specimens from Faroe Is.

A fine beautiful, nickel green colored variety of Opal, translucent, from Kosemütz, Silesia.

Jasper. Best red and green jaspers from Siberia and India. Of fine red color from Russia; India; Mexico; Antigua; Sicily; & Vaal R., Africa. Of fine green colors Urals & India. Of fine striped varieties Siberia & E. Indies. Agate Jasper from Oberstein. Fine pudding stone jasper from Sicily; and fine brecciated from Kunnersdorf, Bohemia.

Aventurine Quartz. A rich green variety from East Indies. Ordinary red, from Spain, Bohemia, Silesia, & Siberia.

Cats Eye. Besides many varieties from Ceylon, include the blue and yellow varieties, pseudomorphic after Crocidolite from Orange R., S. Africa.

Rose Quartz. Limoges, Bav.; Tvra & Tammela, Finland; Paris, Me. & Ekaterinberg.

Smoky Quartz. (Cairngorm, Morion, Smoky Topaz) Switzerland, Urals, Scotland, &c.

Citrine. Several massive specimens (6) Brazil, light colored, except two small ones which were dark amber color and marked rare.

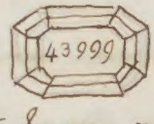
A number of cut "Citrines" exhibited various shades of yellow, and one was beryl green.

Amethyst. Best cut specimens marked Brazil. Others from Uruguay and Marsinsk, Urals; also India, Ireland & Oberstein. ! No large crystals from which really good cut specimens cannot be obtained.

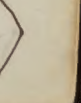
Phenakite Be_2Si. Most fine specs from Kokscharow Collection. Many fine large crystals from Ekaterinburg, Perm. Two remarkably fine transparent, colorless, brilliant-cut specimens, without conspicuous flaws;- from the emerald mines of Ekaterinburg. No 41172 - 164 3/10 grs No 41173 - 136 1/10 grs.

Chrysolite Fine crystals, generally rolled, good color, like the ordinary cut specimens, labelled "Isle de Sbyrges, Arabian Gulf. A tray with a number of brilliant-cut specimens, of which three quite large - no locality given.

Zircon. Fine large crystals from Greenland, Ceylon, Ilmen Mts + Norway.

A number of specimens cut en cabochon + in brilliant form of various colors: some smoky, grass green, tourmaline green, amber yellow and colorless or nearly so. One honey yellow, like pale essonite, marked "Hyacinth, Ceylon, 3 carats nearly, £12." Two garnet colored, marked Mudgee, N.S. Wales. A small one nearly same color Espailly Auvergne. None of this garnet color was from Ceylon. 

Garnet colored Hyacinth from Australia.

Sapphire. Many specimens cut in brilliant form and cameo, of various shades of blue. Oriental Amethysts, cut, of varied shade. Some decidedly of amethystine hue passing into red. Green sapphires with an aquamarine hue. Several colorless sapphires. Oriental topaz = one pale yellow, a square brilliant about 1/4 in. a second, dark topaz yellow, half oval brilliant about 1/2 by 1/4 in. but not clear of spots. Tray of rubies cut, but nothing remarkable. Beautiful crystal of good color, a hexagonal plate about 1/8 in thick. 

Tourmaline. Best black x ist Haddam Con., a fine large one on a quartz base. 2d Karosulik, Greenland, 3d Chudleigh, Bovey Tracy, Devonshire. Large green prism, and longitudinal sections of three from Brazil (none equal to specimens of Mr. Vans) (No small green crystals equal to those of Paris, Maine.) Triangular green prisms with pyramidal termination, Brazil. Achroites with dark colored ends, and dull green x with darker ends from Ellen. Pink crystals from Ellen but none equal to Mr Spang's.

Many fine dark hyacinth colored crystals of Rubellite from Mursinsk, Urals. Brown crystals from do.

Pea green crystals, also some cut specimens, St. Gothard.

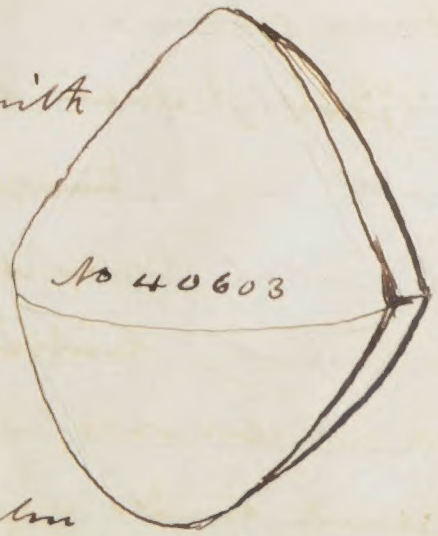
Several cut hyacinth colored rubellites and green and brown tourmalines with no locality. (! No fine rose colored or ruby colored specimens !!).

Garnet. Cedlestein not remarkable.

Iolite. Best formed crystals Bodenmais, Bav. Two trays cut specimens, blue & smoky hue.

Adularia. Best Moonstone Ceylon. A fine one, highly lustrous about ½ in diam. set in a ring.

Spinel. Huge red octahedron No 40603 with smooth lustrous surfaces, but opaque or only translucent at edges and points which are rounded. Ceylon.



Two small bright red transparent octahedrons, about 2½ to 3 lines diam. Ceylon

Kyanite. The specimen of Kyanite, richest in color, is from Chesterfield, Mass. Magnificent specimen from Nuttall.
A small tray of cut specimens, double calvchon from St. Gothard, specimens look like pure sapphire full of streaks.
Kyanite of Skaterinburg, Perm, closely resembles that of Darby Creek, Del. Co.

Epidote The fine pirtacites are labelled "Knappenwand, Untersulzbachthal, Salzburg.

Sphene. Three brilliant-cut specimens, from Knappenwand, "one topaz yellow, with lustre of Zircon, but full of flaws.

Lapis Lazuli. Most of specimens, the best in quality, from Persia. Others Siberia, but no other locality represented.

Haüyne. Specimen which would appear to yield the best material for cutting was from Lake Baikal, Siberia

Apatite. Most beautiful, a small group of large tabular crystals, of fine lustre, greenish blue and transparent. From Kirikabinsky, Orenburg, Russia. Resemble those of Untersulzbachthal.
(No good ones from Bob Lake in the Cabinet)

Perofskite. Beautiful specimens. Two x's an inch or more in diam. on the matrix. Another x attached to matrix about 1½ by 1¼ in.

Chlorastrolite. Several good bright nodules. Only local. L. Superior

Chlorastrolite nodule

Euclase. Sixteen crystals generally beryl green, one colorless and one sapphire blue - Minas Geraes, Brazil.

Three crystals = one colorless, one green and one blue, from Sanaska R., Orenburg.

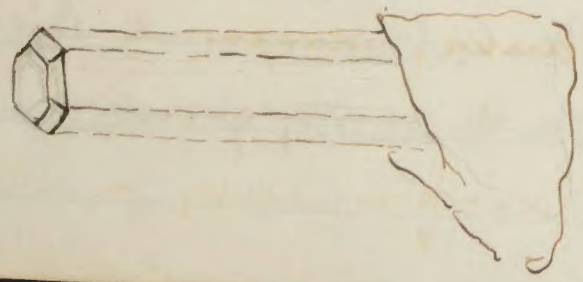
Emerald. Localities: Mines of Mt Zabara, Egypt, specimens indicate inferior quality. Ekaterinburg, Perm, and Haluchtsthal, Salzburg, also Eidsvold N. of Christiana Norway. Also Peru.

Best from Santa Fe' de Bogota, New Grenada, Not but in quality from Emerald mines of Ekaterinburg.

Numerous cut specimens of various forms and qualities but none of remarkable character.

Beryl. Collection large and magnificent. Those which are especially remarkable for beauty, size, color, transparency and crystalline form with rarity of modification are Siberian. Among these are sea green and yellow green crystals from 2 to 8 in long by 1 in to 2½ in Diameter. Three superb crystals from Mursinsk, Ural: the two larger yellow green, very brilliant & with modified terminations. The third is topaz yellow, transparent, flawless ~~transparent~~, over two inches long and about ¾ in diam.

With remarkably modified termination.



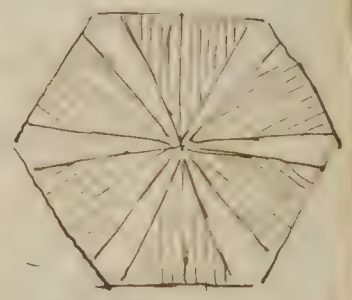
Another superb yellow crystal from Mursinsk, attached with a second less conspicuous one to matrix.

Three yellow crystals. Mursinsk, Ural.

Two trays each with nine crystals from 1 to 1½ inches, variously terminated, some green others yellow - Mursinsk, Ural.

Six trays with green crystals, less modified than former, from Adun-Tschilon, Nertschinsk, Irkutsk

Pale pink & pale green beryls crystals attached to matrix from St. Pietro in Campo, Elba. Also isolated x6.



Some Brazilian beryls, water worn. Two specimens of large ones presented an asterated structure:

Many beautiful cut specimens, brilliant from - - -

Kyanite. The specimen of Kyanite, richest in color, is from Chesterfield, Mass. Magnificent specimen from Nuttall.
A small tray of cut specimens, double cabochon from St. Gothard, specimens look like pure sapphire full of streaks.
Kyanite of Chester inlaying, Penn, closely resembles that of Darby Creek, Del. Co.

Epidote The fine pistacites are labelled "Knappenwand, Untersulzbachthal, Salzburg.

Sphene. Three brilliant-cut specimens, from Knappenwand, "are topaz yellow, with lustre of Jargon, but full of flaws.

Lapis Lazuli. Most of specimens, the best in quality, from Persia. Others Siberia, but no other locality represented.

Hauyne. Specimen which would appear to yield the best material for cutting was from Lake Baikal, Siberia

Apatite. Most beautiful, a small group of large tabular crystals of fine lustre, greenish blue and transparent. From Kiriabinsky, Orenburg, Russia. Resemble those of Untersulzbachthal.
(No specimens from Bob Lake in the Cabinet)

Pyroxene. Beautiful specimens. Two x's an inch or more in diam. on the matrix. Another x attached to matrix about 1½ by 1¼ in.

Chloranthite. Several good English modules. Only local. L. Superior

Chloranthite module

Diamond. Upwards of 200 crystals, mostly under 1 caret, mounted on narrow pedestals 1. Generally colorless or pale yellowish. one rose pink; 1 sulphur yellow or like the yellow uranium glass; one dull blue, and several black. The crystals of many modification of the primitive form.

A bright straw-colored diamond, about size of a filbert, imbedded in a mass of greenish, granular friable rock. Also four smaller crystals in fragments of same kind of rock.

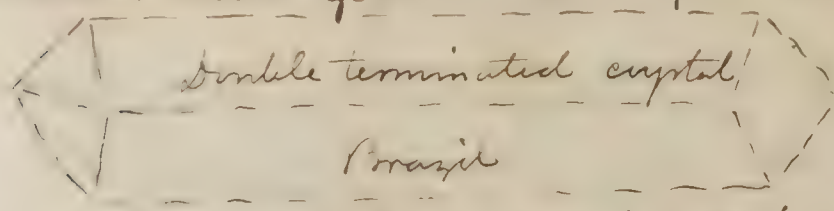
From Lovlesberg Kopje, S. Africa.

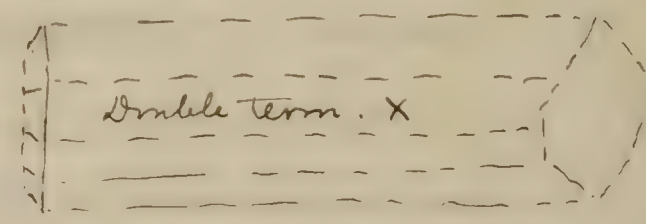
Five fragments yellowish granular friable rock with white crystals. S. Africa.

Topaz

The collection of Topazes is very fine, together with Pyenite and Pyrophysalite they occupy one whole side of the Double cases.

A number of Brazilian xs various shades from pale straw to dark wine yellow and pinkish yellow





mostly with fine terminations, twins, &c.

Many fine xs Schneckenstein, Saxony largest about 3/4 in long by 7/8 in greatest diameter. All pale straw color.

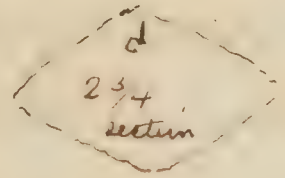
12 xs beautiful large specimens colorless or pale bluish with fine terminations. River Urulga, Nertschinsk, Irkutzk.

Topaz. Seventeen crystals from half an inch long and thick up to nearly three inches in diameter, colorless and pale blue all finely terminated. Nertschinsk.

Beautiful ogrnae prism 1½ by 2 diam, pale blue, semi-transparent, Nertschinsk.

Large ogrnae prism, semi-transparent, pale greenish, terminated, Mursinsk, Ural.

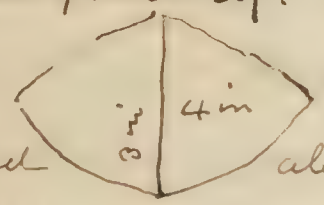
Portion of two very large crystals of beautiful cerulean hue, one the termination of a crystal about 4 inches across. From Mursinsk, Ural.

Another crystal about 4 inches long 

good termination. pale bluish, semi-opaque. No label.

Eighteen crystals (Work Col.) fine terminations, mostly nearly colorless or pale bluish.

Thirteen fine large crystals, colorless & pale bluish, various terminations, & various degrees of transparency. R. Urulga, Nertschinsk, Adventyk.

Large crystal, 2 inches long and 

about 4 by 3 diam. bluish, but dirty. Tschuserken Mts., Trans-Baikal.

A number of fine crystals, terminated, mostly water worn, colorless or greenish & transparent. Flinders Island. On same tray 3 brilliant-cut specimens, nearly colorless. The largest one about 1 inch diameter.

Four Xs one with beautiful termination, colorless & bluish; and three of them water worn. On same tray two cut specimens

one colorless, the other pale yellowish green. From Cairngorm, Scotland.
A number of good x s, nicely terminated, colorless, from Mourne Mts, Ireland.

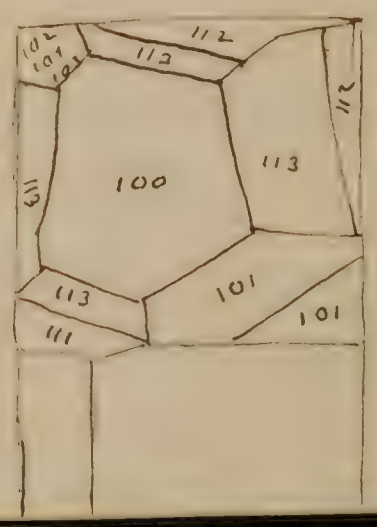
Portion of a huge water worn crystal, nearly colorless, but with a faint greenish tinge, transparent and apparently without imperfection. Weight 12 lbs 15½ oz. Ceylon?

Tray with 17 brilliant-cut topazes, on tints, colorless, bluish, straw color, yellow, sherry red pale ruby and darker ruby hue. (No red ones equal to mine in size)

Some pinks crystals - the color attributed to heat on the yellow topazes of Brazil.

Fair topaz specimen, transparent & colorless, on an opaque specimen from Trumbull, Conn.

Seven magnificent topazes, from R. Urulga, Nertschinsk, Irkutzk. Square prismatic crystals with well modified termination. Large specimens transparent, champagne wine color. Kept under cover to prevent the bleaching by light. No colorless specimen of Topaz in the collection is catalogued as clove-brown and is considered as having lost its original color under the influence of light.



modifications or planes of one of the terminations

Jade & Jadeite. In collection of British Museum.
Under head of Jadeite. Specimens of rich green from
China. also whitish and pale green specimens from
same; and also green specimens from Mexico. Have
generally a crypto-crystalline structure, resembling
the tremolitic jade of Easton. Arranged next to Zoisite, &c.
under head of Jade. Dark green specimen from New
Zealand & mottled white & green streaked from New
Caledonia = "Oceanic Jade" White and dull
greenish specimens from China and India. also
specimens from Irkutzk, Siberia. = "Oriental Jade".
An Easton specimen arranged with these. Specimens
generally of more uniform homogeneous texture than
the preceding under heads of Jadeite, and more present
the decided crypto-crystallinic appearance.
Mr. Markelyne remarked that the Jade & Jadeite
are two distinct minerals.

Platinum. Such specimens as ours labelled "Nigni. Tagilsk (Ural) Perm

The British Museum rich in Russian minerals, mostly
derived from Kokscharow Collection.

Crypt. Malachite

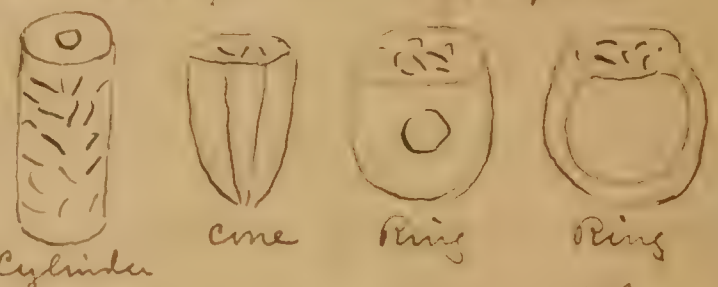
2 spms. which Mr. Markelyne remarked
were unique. Promise to send Mr. M. a nice spm of Vivianite.

British Museum.

Nineveh Gallery. Case 66 contains many articles with heads of Cornelian, Agate, Onyx, Crystal, Chalcedony, &c.

Case 62 Miscellaneous objects from Assyria and Babylonia. Numerous specimens, consisting of many engraved seals, rings, cylinders, &c. (No facet cut stones). Materials consisting of quartz, different colored Jaspers, Carnelian (frequent), Chalcedony, Onyx, Hematite, Steatite, Amazon stone. In unlabelled specimens appear to be an engraved Carbuncle set in a ring and a dark Garnet head. There were also many heads of Carnelian, Agate, Onyx Chalcedony and Jasper.

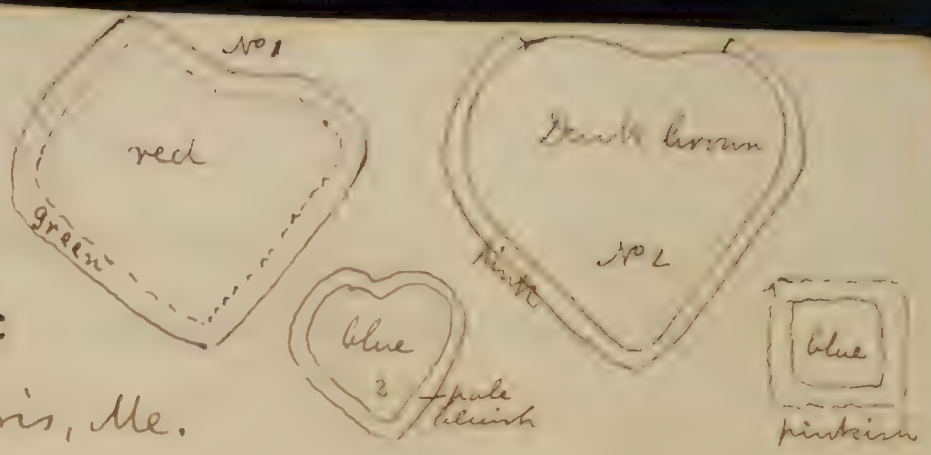
Case 61 Engraved stones from Assyria and Babylonia. Most of them are cylinders one to two inches in length and perforated. The others consist of cones, and rings, some with small apertures for suspension, others for the finger. Materials: various colored Jaspers; Quartz; Agates; Onyx; Sardonyx; Carnelian; Chalcedony: bluish and white (frequent); Lapis-lazuli; Amazon-stone. Obsidian; Hematite (frequent; Steatite; Serpentine; Calcite; Gypsum; Shell. &c.



In the Collection of Antique Gold Ornaments in a Private Room of the British Museum, there is a multitude of engraved stones especially of the Ancient Roman and Grecian period, but there appears to be no system in the nomenclature of many of the materials. The names of Sard, Cornelian, Onyx and Sardonyx in many cases are indiscriminately employed. In most cases bright red cornelians, and stones of various shades, with brown agate are named Sard. Stones consisting of a black basis with a white layer upon or in which the figures are usually engraved, are often named "Nicolo". (described as a thick layer on a black basis.)

Among many finely executed gold ornaments of the Greek period usually without settings of any kind there are some with Garnet heads. Among some Egyptian gold ornaments there were heads of Amethyst and Cornelian. In gold ornaments of Roman period, there were Emeralds & Sapphires, generally of poor quality. Lapis lazuli and pearls. Stones en cabochon, or engraved in intaglio and cameo. Emerald heads sometimes appear as the natural hexagonal crystals lined in length, often appear to be evenly reduced to uniform size.

Among objects observed was a well formed model of an astragalus of a ruminant in sard but without any label.



Brit. Mus. June 11th

Tourmaline sections particulars:

1 Section originally from Sheppard, Paris, Me.

2 Mr. Ludlam has a similar section

3 This section, supposed to be from same locality

4 Square section; mostly — sapphire blue, with a pinkish. Loc. uncertain.

3 Supposed to be Paris, Me.
A second specimen nearly similar.

Mr. Brazer suspects all these are from Paris, Me. There appear to be no others exactly of the same characters.

Museum of Economic Geology. Jermyn St.

Turquoise. Many specimens from Arabia Petraea, mount.

Many specimens, mostly cut from Persia.

Three fine greenish blue nodules about size of marbles. Brought by Lama merchants to Leh, and obtained probably from Eastern Thibet or China.

Diamond. Several fine crystals imbedded in matrix, from South Africa one attached to a granular brownish calcareous rock. Another with portion of Calc. tufa attached. Another a fine octahedron partially imbedded in a yellowish gray coarsely granular rock labelled Griqua Land, S.A. Another to a fragment of so-called blue stuff.

A hyacinth red crystal ○ irregular in form. Sincora Mines, Brazil

Cascalho of Brazil in a tray containing of quartz pebbles and a dull brown ferruginous clay.

A tray of materials, in which diamonds found at Cuddapah E. Indies, consisted of pebbles of quartz, jasper, agate, granite, &c.

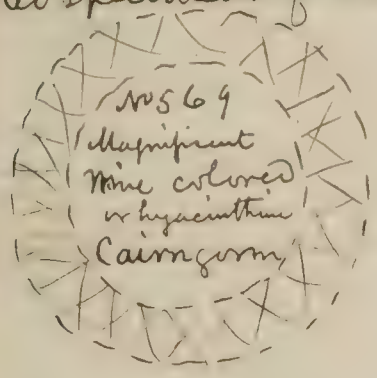
A dozen trays of materials, in which S. African diamonds found. consisted in some of friable earthy material, of calcareous nature; others of pebbles of jasper, chalcedony, agate, cornelian, quartz, &c. another of garnet fragments and green hornblende, &c.

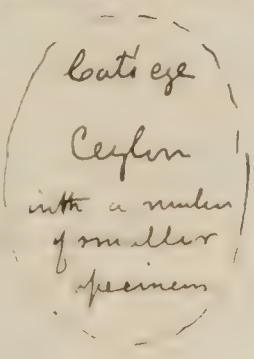
Carbon. Among specimens one of bunch of straw "coked in a coking oven" which looked as if ornated into graphite.

Quartz.

Two worked objects in rich green Aventurine Quartz, China.

Red specimens of Aventurine Quartz of best quality from Spain.





A garnet colored cordierite cats eye, a bluish black one, and an ordinary yellow one. S. Africa

"Sard" name applied to specimens of brown, smoky brown and reddish brown cornelians.

The dark green matter in Chalcedony, often assuming a moss-like or dendritic appearance is named "Delessite".

A large and instructive series illustrating the formation of agates, which are labelled as "Amygdaloids" from "Melaphyre" the rock in which have been formed.

Polished sections of pebbles from the Red Crag resemble Egyptian Jasper.

Beekite. = A chalcedonic deposit on a fossil sponge. From the New Red Conglomerate of Devon, Eng.

Specimens of our India Corundums, or ones like them labelled "Near Coudanur, Nuggur Division." B. M.?

1 Rich Tourmaline Green tinge

3 Rich olive green £15.

4 Smoky yellow £15.

Smoky yellow

№6

Hyacinth. 1 Brilliant-cut spn. about 7/16 by 5/16, rich tourmaline green colour, very bright & handsome. Gregory says finest he ever saw & values it £5.

A rich garnet coloured Hyacinth, brilliant cut, about 3 lines, from Mudgee, N. South Wales. (2)

1, 4 Two fine brill. cut Rich olive green + smoky yellow. Sold to Museum by Gregory for £15. each.

№3 Smoky yellow, not so dark as 4.

№6 Pale green nearly colorless.

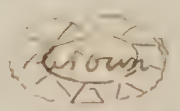
Nos 948, 949 & 950 of the Collection are garnets set in rings & engraved but are labelled Hyacinths. Two other garnets in bracelets pres. by Mrs E. Vivian are also marked Hyacinths. I inspected these & they were garnets & Gregory confirmed my opinion.

Tourmaline. Mr. Markelyne says that he never saw antique cut Hyacinth.

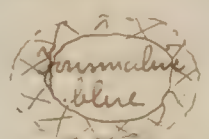
least series in brilliant form. 1 Green aquamarine hue (like my fine Paris specimen) also 2½ lines. 2 Rubellite 3/8 Paris. Me, sold to museum by Gregory for £10.

1 [Green] about same size as last pretty green & red. Probably Paris, Me.

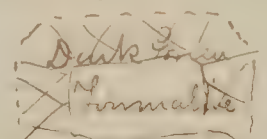
? pencil pale olive. Ice.?



Ceylon?



siberite



Brazil?

No rose colored spns.

Several pinkish Ilbon crystals, but none of convergence from Siberia.

Diopside

Dark Green Colorless

with fine specimen, combes like a green tourmaline. N York:

Asymmetrical end of Selenium turned like dull anthracite or a cubical end of coke. Mus. Econ. Geology.

Spinel.

Blue, good specimen.

Gregory showed me two fine ones in his possession one

Iolite. (var. Indic. cut blue)

Finest specimen yet [illegible].

Adularia.

A moonstone, Ceylon, in brilliant form, is very pretty. A large slice of do, from Ceylon about 5 by 2 in.

Chrysolite. Three fine cut specimens. 1 Square, oct. brilliant from about 1 in. diam. 2d oval 1 in long 3/4 wide. 3d drop form nearly as large as former. A fourth, intaglio head of a man, set in a ring. From the Heath collection.

Sapphire.

Cut specimens, in various shades of blue, yellow, red, green, colorless, amethystine &c.

No 872 pale bluish Ceylon 7/8 in dia.

" 874 dark amethystine red Ceylon ruby 1/2 in dia.

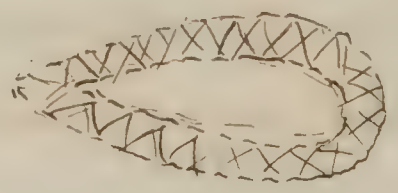
" 872 Lemon yellow oriental topaz 7/8 long 1/2 in wide. brilliant cut.

Iron pleonast white, oval, brilliant cut 7/16 by 5/16 in a ring from Hospital.

Ruby specimens marked Ava.

Three fine blue sapphires, brilliant cut, set with diamonds, pres. by Mrs. Warne.

Topaz No 1032 Large, brill. cut faint blue, nearly colorless & perfect 2 in by 1⅛ inches. No 1035 Fine, deep yellow brazilian, without flaws, circular brilliant 1¼ in diam. No 1037 Fine pinky, brilliant, oval 1 in. by ¾ in. No 1038 pale blue, 10 lines by 8 lines, brill. cut, Siberian?
An oval brilliant, colorless perfect 1 in by 10 lines.
No 1031 Oval brill., colorless perfect, about size of former. From Flinder's Ile Bass' Strait, Tasmania. Pres. by Lady Franklin. A finely terminated crystal of equal transparency & perfection accompanies the cut specimen.
No 1036 large cut drop brilliant deep yellow wine color. Brazil?



No 1020 Segment of a prism about 2¾ in long and diameter
Colorless & flawless, from Miask, Siberia
No 1021 Large yellow terminated crystal about 3 in by 1 in. Brazil.

Garnets. Many fine specimens of different varieties, including Ceylonites, but no localities marked. Three large carbuncles over an inch, but imperfect. (No natural crystal equal to the fine one from Del. Co.)

Phenakite. A fine brilliant-cut spn. about ⅞ by ⅝.

Beryl. A crystal, one end flat terminus, yellowish green, full of flaws about 7 in. long by 1¾ diam. Odontschelon, Siberia.
A fine blue crystal, about 2½ in long, Mourne Mts., Ireland.

Emeralds. Two fine crystals, modified end, in black matrix; from Muzo, for Grenada. One crystal about 7/8 long by 1/2 in. diam. Both would cut well.
Several cut specimens, one about 3/4 in by 1/2 in. good color but imperfect or full of flaws.

Cut Beryls. A pale yellow specimen about 4 lines wide. A second small one about 2 lines diameter of a topaz yellow color. A square green one 1/8 in. diam but full of streaks. Two fine pale bluish: about 3/4 in diam and 3/4 in by 1/2 in.

Chrysoberyls. Fine series of 8 brilliant-cut specimens of various shades yellow and greenish yellow. The largest one, of a lemon yellow nearly 3/4 in by 9/16 in.

Cymophanes. Cut en cabochon: one greenish yellow; the other pale smoky 3/4 in by 1/2 in with broad oblique band of white light.

South Kensington Museum

Chariot in silver with four horses and in front two horseman. An exquisite piece of work Italian (Venetian) 1594 Lent by Marquis of Sligo. Ornamented with diamonds! garnets carbuncles, rubies, emeralds and turquoises. The diamonds and garnets cut with facets, the other stones en cabochon.

Three cases with large collections of beautiful jade ornaments, mostly from China. Jade from the usual pale greenish white hue to various shades and depths of green and of different degrees of translucency. Sap green & rich pea green. A number of objects in greenish white jade, inlaid with rubies & emeralds, &c were of Indian manufacture.

Some cases contained beautiful objects of red & white carnelian or sardonyx on jade stands and also objects in aquamarine

No 8854 An ancient Egyptian Necklace. With beads of various forms of gold, lapis-lazuli, amethyst, carnelian, scarabaei and a pendant of hematite.

A collection of many earrings, necklace, &c. Ancient Roman. With beads &c. of carnelian, amethyst, garnet, emerald, sapphire, lapis lazuli, porphyry, Lelistrope, chrysoprase, pearls, &c.

No 6570 An earring. Ancient Roman with small emeralds, rubies & three hyacinths (labelled jacinths. Cost £5. 5s.

№305 Ancient Grecian Necklace, with many garnet beads £40.
№8853 Ancient Roman necklace of 31 tubular Chrysoprase beads.

№s 1326, 27 Spinel. Superb specimens, rich ruby red, without flaws. Townshend bd.
№1328 Large dull yellow Cymophane with a broad and brilliant band of white light. Superb specimen. J.B.
№1330 Rich yellow green Cymophane with broad band of white light. Townshend Col.

№19
Dark Cochineal
Rubellite
full of imperfections
semi opaque

20
Dark Red
Rubellite
semi-opaque

J. B. B. Hope Collection
1-23 Tourmalines of various hues, mostly dark green, greenish blue or bluish green. Also clove brown, dark rubellite. (No rose-colored or ruby-colored specimens.)
№25. Four Zircons in a ring. One Hyacinth colored, one yellow green, one greenish and one brownish.
№38 Iolite Fine specimen, Oval brilliant-cut 7/8 in long 11/16 wide.
" 39 Iolite intaglio head set in a ring - Fine specimen
" 43 [ ] Sapphire of dark amethystine hue.

46 Asterias sapphire, pale bluish. an inch long 7/8, about. cut brilliant
" 77 Magnificent, rich blue Sapphire, an octahedral [ ] in setting.

№54 Labelled large hemispherical "Cats-eye" (supposed to be the largest known) Set in gold and said to have belonged to King of Kandy. Diameter 1 7/8 inches. Has the appearance of the dark greenish Sapphires of Siam, with the same peculiar lustre.

№67. "The Mexican Fire Opal" engraved with head of Apollo; in setting. Transparent opalescent variety with green, red & blue play of color. Historically known since the 16th century.

Nos 75, 76 Fine large Peridots.

№60 Cameo-bust of Cleopatra in full relief. Height 1 3/4 in width 1 1/4 in. Italian, cinque-cento work, labelled as a "splendid jacinth"

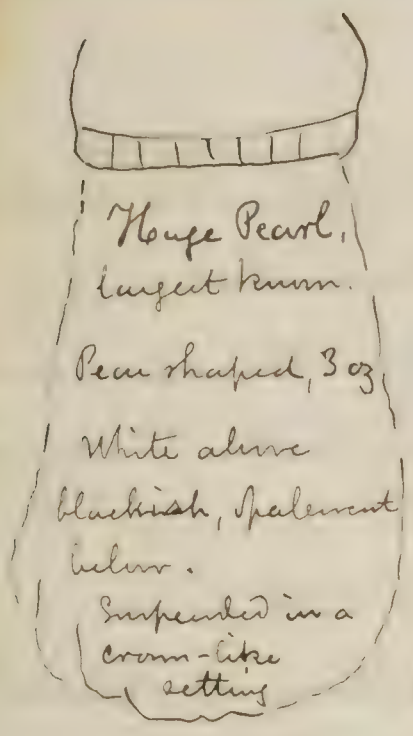
№61 Jacinth cameo of a boy's head; cinque-cento work. Circular about 3/4 in diameter.

! Wm. Mr. Markelyne says all these so called cut Jacinths, are garnet of the essonite variety.

№ nos. Four fine Peridots, of which the largest is about 1 3/4 in long by 1 1/4 wide.

Handle of a sword hilt made apparently of a (cavities crystal of beryl, an oblong oval faceted aquamarine about 4 inches long. Made for Murat, King of Naples.

A cameo bust 1 3/4 in long, in white Cachelong.



A Tray with 83 specimens of Pearls of varied hue, 18 pearls baroque, &c. Hope Col.

An interesting specimen of the Pearl Oyster, with soft body and half shell suspended in alcohol. Body full of pearls; many apparently enclosed in mantle; but the largest 5 or 6 lines diam. in the pericardium or at least the same position between adductor muscle and Abdominal mass. Hope Col.

A beryl, hexagonal × dull green & semi transparent about 6 or 7 in by 1½ is labelled as Irish. Hope Col.

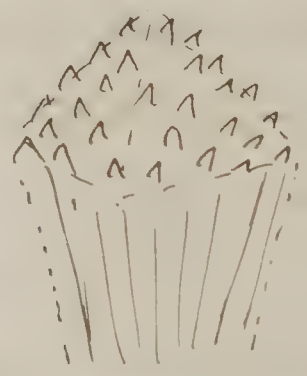
(Specimens cut en cabochon is a good style for opaque and semi-opaque materials)

A Moonstone from Ceylon about 1¼ by one. Very fine. Hope Col. 118
Nos. 139–143 Fine series of Chrysoprases. Hope Col.
144–146 Oval Chalcedony specimens looking like pale bluish, semi opaque sapphires. Hope Col.
152 Fine specimen of Odontolite. Hope Col.

June 15 Hogg & Martin & Co. London. Diamond brilliant, Champagne wine color, of 72 sts. Exhibited many beautiful diamonds, and also a large, superb opal.

British Museum. Some specimens, reveal cut, blue transparent Sapphire tabulled Victoria, Australia.

British Museum Rubellite.



A large fasciculated crystal about 6 inches high and in diameter from Ava. Pres. by King of Ava to Col. Symes. It is so pale and dirty looking as hardly to deserve name of Rubellite + is also opaque or slightly translucent. Only interesting from size & form. Estimate of £1000 is simply absurd.

A second specimen, standing near it, also made up of a group or fasces, is much finer, of dark rubellite color. and is also from Ava. Pres. by Mr. Guthrie.

Meteorites of B. M. Mass of M. iron, one half of original, weighs about 3½ tons. From Cranbourne, near Melbourne, Victoria. Found in 1861.

A remarkable looking specimen is white or gray in the pattern looking like cleavable Feldspar crystals. From India Fell Dec. 2, 1852. Loc. Bartee, Tryzabad India.

A somewhat similar specimen, from Bishopville, S.C. Fell Mar. 25, 1843.

June 18. Paris.

The Collection of the Jardin D. Plantes and of the Ecole d. Mines are not so rich in specimens of precious stones as the British Museum mineralogical collection.

The Palais Royal contains a multitude of Jewelers' shops which exhibit a wonderful display of all kinds of jewels in their windows. The precious stones are in the greatest profusion in great variety & in every condition from the rough to the most beautiful and costly. The shops indeed form one vast museum of precious stones, &c. Diamonds, Rubies, Sapphires, Emeralds, &c. &c. innumerable, not only of the ordinary kinds, but also of different colors as relates to the Sapphires. Many large Diamonds & Emeralds shewed. Sapphires of the ordinary hues, also green & black ones. Some fine Chrysoberyls. Pearls of steel gray hue & of large size not uncommon. Also pink pearls.

Musée du Louvre. In same room containing the Phenician Sarcophagi is a case containing many necklaces and bracelets of large rude beads of various shapes. They are not labelled, but the guardian told me that they were found with the Sarcophagi. The materials of the beads are Carnelian, [illegible], agates, onyx, chalcedony, jaspers, crystal, amethyst, various quartzes, porphyry, lapis, amazon stone, &c.

Museum of the Louvre.

The "Salle historique" of the Egyptian Gallery.
Cases containing a multitude of rings, necklaces, scarabaei, seals, and other jewels. Materials mainly, besides the metals bronze, silver, & gold, usually various baked earths and minerals enameled mostly blue. Stones employed as follow: Red and brown cornelian present, various jaspers especially red, hyaline quartz, agate, onyx, lapis lazuli, amazon stone, porphyry, serpentine, steatite, amethyst, chalcedony &c. One specimen size of dime, en cabochon, apparently turquoise. The stones in form of globular and cylindrical beads, scarabaei engraved, eye-amulets, &c.

June 30. Musée du Louvre. Room with cases containing ornaments in gold &c. apparently of the Roman Period. No Catalogue. The Guardian of the Room told me ~~that~~ they were Roman, and they had that appearance. The gold articles were generally elaborately and beautifully wrought, but the accompanying precious stones, generally in the form of globular, ovoid, prismatic, cylindrical, and chiseled beads, excepting the commoner kind were of the poorest quality. The stones generally carelessly shaped. Some in form of Scarabaei, and cylinders, with intaglio engravings. No faceted stones like the modern form

When emeralds are employed, generally as segments of the original crystals with the faces smoothed and the axis perforated as beads. Sometimes the segments with the original six sides, often irregularly 3, 4, 5, or 6 sided, sometimes flattened cylindrical and rarely globular. Emeralds invariably of poorest kind.

№ 221 Necklace of globular gold beads alternating with discoid garnet beads, & with gold pendant containing a fusiform garnet drop.

№ 220 Necklace of alternating gold and garnet beads.

№ 231 Necklace of alternating gold & garnet beads. The former globular; the latter fusiform & some compressed fusiform.

Nos. 210–213 Four necklaces of alternating gold and emerald beads. All the emeralds of poorest quality and generally as segments of crystals or cylindrical and compressed cylindrical beads. None would be employed in the commonest modern jewelry. The workmanship of the gold of the highest order.

№ 213 – A necklace of emerald beads, of irregular prismoid form alternating with elaborately worked gold beads. From the chain hang a series of locks of the same character with large gold medallion heads as pendants. The rude sketch on opposite page represents the middle portion to one side of the necklace. None a single transparent emerald, but all of the poorest character; – nor are they of uniform shape or symetrical form. The shape apparently is little modified from the natural condition of the original fragments.

Gold

Portion of a Necklace of Gold & Emeralds of the Roman Period. Louvre.

The rudely marked characters and poor quality of the stones are in striking contrast with the excellence of workmanship of the gold. The large gold beads equal in size gold ink.

No 241, 242 Necklaces with gold beads or ornaments alternating with emerald beads and a few garnet beads.

No 243 Necklace with alternating gold and emerald beads.

No 223 Necklace with alternating emeralds and amethysts separated by gold links, which contain gold pendants with suspended garnets, emeralds, & amethysts. The emeralds & amethysts of the poorest quality. Workmanship of gold good.

No 224 Necklace of beads of onyx, chalcedony, garnets, agate, cameleon and glass. No gold. Beads of various forms and sizes, with no uniformity.

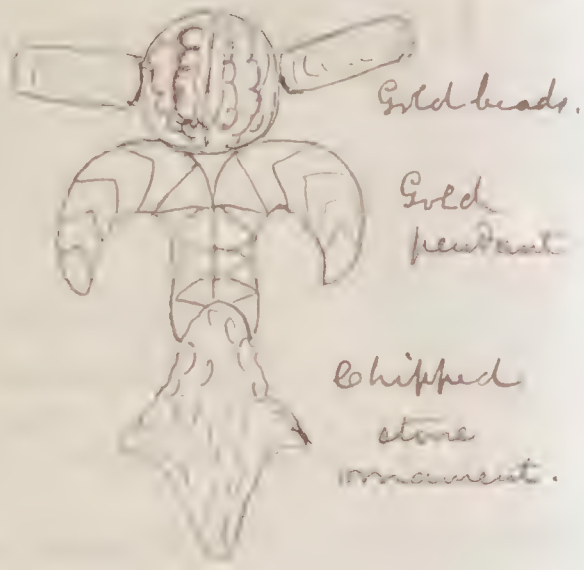
No 152 Necklace of alternating globular gold beads and disc garnet beads with gold pendant.

No 153 Beautiful gold necklace with many pendant scarabei of sard (or burnish red cameleon) set in gold.

No 233 Four necklaces of large sicilian amber beads, much decomposed. One with alternating gold beads & pendants.

№55 Many ornaments in Sicilian amber, much decomposed.

№186 A beautiful and elaborately worked gold necklace; alternating globular and cylindrical gold beads and pendants. From the middle pendant, also of gold, there projected a single ornament of stone, which looked like a small chipped arrow head of brown jasper.



None of the stones in the necklace above mentioned were faceted in the modern style. All rounded, dished, &c.

In a case under the windows in the same room, containing a number of gold ornaments, some of which were labeled from Athens, found near Corinth, &c. There was a necklace of emeralds and pearls on wire gold chain. The emeralds of poor quality, fragments or segments of crystals with the sides more or less artificially polished. The pearls are white but irregular in form.

Many gold rings of good workmanship, were often pointed with the stone settings. Probably of the Roman period. None of the stones faceted. All en cabochon, as cylinders, disks, scarabei &c and some cut in intaglio. Materials Sard, onyx, nicolo, garnet, emerald, amethyst, jasper, chalcedony, &c. Several appeared to be pale

bluish sapphire, but this is uncertain.
Three huge massive chased gold rings had intaglios in nicolo.

Museum of the Luxembourg. July 2. In one of the Galleries notices a large Cameo, framed and hanging with the pictures, the only stone observed in this collection. It is 306 of the Catalogue "Notice des Peintures &c. 1875" Apotheose de Napoléon 1er, d'apres Ingres. The specimen is about 8 inches broad and 1 in thick, and is cut on a dark bluish* onyx. It is not artificially colored, and is nearly uniform except that near one side it has an irregular whitish patch, and some brownish in several spots. This in the catalogue is marked as "Sardonyx".
(* or bluish gray with a little brownish in some spots, and the thin irregular whitish patch of small extent) The color is the ordinary natural one of the onyxes of Pernambuco.

July 2. Saw in the window of the Chemists Billault + Billandot N° 2 Corner of Rue de la Sorbonne & Place de la Sorbonne - a small glass covered case with masses of a dull metallic substance in which were numerous brilliant black crystals, of octahedral form, the largest about half a line, labelled) "Bore cristallisé dans l'alumine".
A specimen of "Bore cristallisé" also seen at Mus. Ecole d. Mines but not so good as foregoing.
The former specimen I since purchased for 30 fr. = $7.50 currency. Aug. 1875

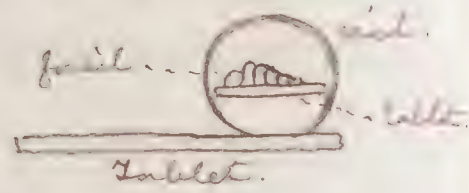
Museum Ecole des Mines, situated near the Luxembourg.

July 3,

In the Palaeontological Galleries. A magnificent collection of Radiolites, Sphaerulites, Hippurites, Caprotina, Dicéras, &c. Truly a wonderful series exhibiting thoroughly the structure of the genera.

Fossils attached by cement to tablets of binder's board.

Small fossils attached in tablet (blue) inserted in a oval which is cemented to the square tablet as above; Excellent plan.



view of section.

Mineralogical collection.

Iolite. Pebbles like in quantity obtained from N. Scotland are labelled "Ceylon and India". Several good brill. cut specs marked Finland. One ½ in. diam., brill. cut., fine color, no locality.

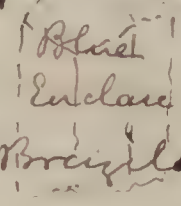
Moldavite. Placed under generic head of Obsidian.

Emerald. Specimen cut square brill. from about ¼ in. diameter, of first quality, rich green & transparent, marked "Peru".
Good series crystals, isolated and in matrix from Mayo, N. Granada

Beryl. Good series transparent, pale green and nearly colorless with modified termination, from Minas Novas, Brazil.

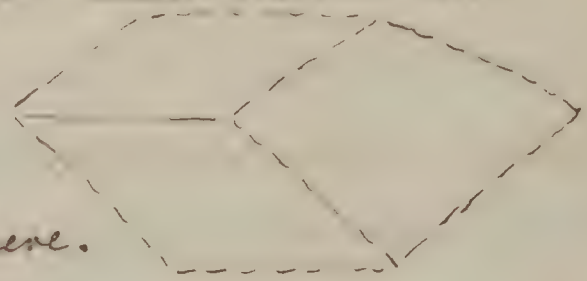
A topazy yellow, brilliant cut oval beryl about 3/4 in by 7/8 in. No loc.
Transverse section of a beryl with stellate structure. Brazil.
Two remarkable sections, also with stellate arrangement, no loc.

Euclase. A remarkably fine series of 18 crystals from Brazil.
One rich violite blue nearly an inch long and half an inch wide.
The others green to nearly colorless. Two small brilliant
to specimens, same locality.
Five good crystals, resembling the Brazilian, marked Peru.



Garnet. A number of pretty and violet red cut stns, brilliant
to colourless from marked "Almandine" some India, but
most with no locality.
A handsome dodecahedral crystal, about 3/4 in diam, as
Epidote from Colombo, Ceylon. Pale cinnamon color

Idocrase. Good series crystals Piedmont and Wilui R.



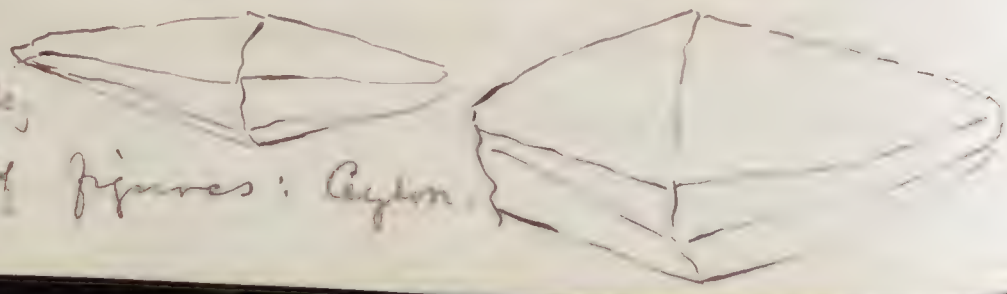
Axinite. A large isolated complete
crystal about 2 in. by 1 in. from Oisans, Isere.

Hiddenite. All the Lapis lazuli specimens are thus labelled
and marked as varieties. Thus far have seen no
true Hiddenite fit for cutting.

Tourmaline. Good series crystals, mostly light pink & others greenish and varied with dark ends &c. from Elba.
Two handsom, brilliant-cut rubellites, about 2½ & 3 lines, of the usually opinel red color. No locality.
One large, oval brilliant-cut abt 10L. by 7L. of a transparent amethystine hue (looks like an amethyst) No locality. (№6). (Guardian informed me that where localities not given they were unknown)
One square rounded brilliant-cut about 5 lines by 3½ lines, of a rose color! (about like mine from Paris, Me.) №12, no locality.
Two dark rubellites, en cabochon, one 11 lines by 6 lines with a striate appearance, the other about 6 by 5 lines. Brazil.
A pale green, oval brilliant-cut spn about 6 by 5 lines resembles a similar one of mine from Paris Me. No locality given!
Several green, blue, & brown brill. cut spns. with no locality.

Spinel. Good series red crystals from India.
Several cut specimens of the ordinary red color. A large brilliant cut specimen appeared dichroic. Green & bluish.

Corundum. Good series of crystals from India & Pegu.
Two handsome pale sapphire crystals partly transparent about size of figures: Ceylon.



Pale blue sapphire crystals from Haute Loire.
A series of brilliant-cut specimens yellow, different shades of blue, colorless or nearly so, pale green white, amethystine, asteriated, and ruby red. No yellow or nearly colorless ones so large as mine.

Chrysoberyl. Good series of 15 crystals, yellow, generally worn, or rubbed, from Brazil. Few good brilliant-cut from do.
7 cymophanes, oval, cabochon, greenish yellow with white light - mostly small, from Brazil. No brown ones.
Good series of 7 Alexandrite crystals.

Topaz. Large & instructive series Siberia, Schneckenstein and Brazil. Blue & colorless ones from Siberia.
Of brilliant-cut specimens, besides yellow ones from Brazil, a deep pink one about 7 lines by 5 lines, and also a small greenish one, from Brazil.

Turquoise.
Three of good color from Nichabour & Madan Persia; Ankober, Abyssinia, and from Arabia. Varieties usually greenish and poor from Montebras; Oelsnitz, Saxony; Steine, Prussia; Silesia; Voigtland, Saxony; Mixbach, S.; & Pyrenees.
Under this head was a molar tooth of an ox, stained with copper as the variety Odontolite.

Diamond. Series of crystals. Among colored ones, pale yellow and uranium yellow most frequent; various shades of smoky next, to black and smoky hyacinthine. Several pears or leek green. No rolled ones observed?
Among the specimens was a smooth globular one, of a whitish hue and translucent, and about 1 line diameter, labelled "Diamant amorphe, Brazil".

Among the specimens of Diamant amorphe from Bahia, Brazil were several looking like brownish, somewhat lustrous, & punctate quartz pebbles, about ½ an inch diameter. With these were several others of more irregular form and brownish or blackish hue.
There are varieties of Carbonado?

Amber. The very dark wine colored variety, from Catania, Sicily.

Chrysolite.

Water worn crystals of Peridot, labelled "Levant, Orient."
A fragment of a fine cut specimen marked Ceylon.
A brilliant-cut specimen about 9 lines by 6 lines, also Ceylon, & larger one, nearly an inch diam., octohed. brilliant-cut marked "Orient."

Phenakite.

(?) Seven good xs from Ourals. No cut specimens.
Several good xs Vosges.

Zircon. Twenty cut specimens, all brilliant from, except one, yellow and greenish generally; one lump of milky opacity and several smoky. Mostly no locality given. (Some of the hyacinth color, and some large)

Large series x from various localities, Siberia, Ceylon, N. C., &c.

Diopside. Fine series xs; Ala, Piemont.

Two beautiful long xs, nicely terminated; Zillerthal, T.

There are green passing into nearly colorless + from 1½ to 2 in. long

Cyanite.

A number of small oval cut specimens, of fair blue color and transparent.

Staurotide.

Fine series xs St. Gothard. Same as found with Cyanite in talcose schist.

Nepheline = under head of Albite.

Aventurine feldspar & Amazon and Moonstone of Mineral Hill = Oligoclase.

Amazon stone, Ceylon Moonstone, + the ordinary yellowish feldspar xs of Del. Co and those of Diana & Lawrence Co. N. Y.; Adularias of Switzerland, Chesterlite, U. S. & Feldspars of Baveno & Elba = Orthose.

Quartz.

A number of small irregular pieces of citron, Brazil.
Fine specimen Rose Quartz, labelled Brazil.

A number of large brilliant-cut citrons, labelled Australia.
Greenish varieties, cut & uncut, Brazil.

! No specimens of Amethyst which would yield good large cut ones.

Cut specimens with göthite (feather quartz) no loc.

!! Lemon yellow chalcedony labelled "Sardoine"
Pale carnelian do do.
Dark brown, translucent, uncut mass, do. do
Red specimen, India, labelled "Carnaline.
White & Whitish specimens from India labelled Chalcedony.

Opal.

A magnificent, oval, brilliant-cut specimen about 1 in. long and 8 lines wide, of dark topaz yellow color and without flaws or cracks. No locality given. Best one seen by me of the "fine opal variety"; looks like a rich citron. Another, larger, but much cracked and not so clear, from Zimapan, Mexico.

A good series, five, brilliant cut, glass opals, marked as variety Girasol, from Mexico.

Jade.

Dark green variety. Labelled Nephrite du torrent de Anotte aux limites des Mines Alibert, Siberia orientale. Huge boulder like specimens. Same shewed in Museum Jardin des Plantes and in British Museum.

Orocidolite.

Specimens marked from Chili, Wannbach (Vosges), and Austria.

Aegyrine, Brevig, Norway. Exactly like specimens from Arkansas, formerly viewed by Sheppard as Acmite.

Leucite.

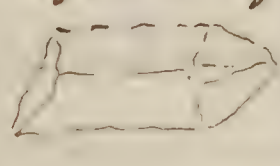
Two small, transparent, colorless, brilliant cut specimens about 2 lines labelled "Amphigene."

The dark red stone with small white spots, usually called Porphyry from Egypt, and also the dark green variety with white feldspar crystals from some locality, are placed under head of Labradorite.

Dresden Mineralogical Collection.

Iolite pebbles, like one obtained from Laurent, labelled Ceylon.
A large brilliant-cut specimen, about 3/4 by 1/2 was labelled "Luchsapphir"; good indigo blue color.

Topaz. A fine large crystal, with prism about 2 1/8 in. square and about 2 1/2 long, of an aquamarine bluish green hue, from Nertschinsk. Fine complete termination.

Apatite, Chili. Fine crystal of true asparagus stone with good termination  .

Rose Quartz. Small fragment of fine color from East India.

Two fine long, branching Sulfurites, from near Forsten, Nied. Lausitz.

Flour. Piece of remarkably rich emerald green hue, from England.

Lapis-lazuli. With fine, large crystals. from Orient.

Red Steinmark (from Zehren) labelled Carnat, Brait. from Rochlitz.
Berg-holz-Sterzing, Tyrol Berg Cork, Chamoisy, Sw.

Hornblende × from Kostenblatt, B.
Must garnets, from Hahlum, Kärnthen &c, labelled Almandin.

Helvin, on matrix, with crystals Schwarzenberg.

Horn Silver - Mass from Annaberg, nearly as large as two fists. Pure, weight 13 Marks 1½ Loth.

Observed two specimens Fire blende.

Altes Museum Berlin, August 4, 1875.

In a case of American antiquities labelled Mexico, observed many objects, as beads, disks, rings, cylinders, &c. mostly perforated as if for suspension, constructed of many materials of stone, principally Common quartz, crystal quartz, red and green jasper, agates, carnelian, chalcedony, obsidian, amazon stone, jade, sard, opal, marcasite, turquoise, &c. &c. In some case a disk about 1¼ by 1 in oval, perforated at one end, of lapis lazuli, and so labelled. (Looks like the Persian and doubtful whether it is a Mex. relic).

In the Egyptian Collection (Historischer Saal V) observed two rich necklaces of many rows of beads of various sizes and forms, mainly of glass & porcelain, but many of Carnelian. In another case many objects, amulets, scarabei, eye amulets, &c.

composed of various materials, besides the common blue glazed objects, many of red jasper, chalcedony, carnelian, porphyry, &c.

In the Gemmensammlung: See Schasler's Catalogue 92.

I Klasse: Antique Cameos.

№32 Urtheil des Paris a magnificent Onyx with rich brown & black and white.

№37 A large onyx 8/4 by 7 in, tarnish black & black and nicely blueish & white.

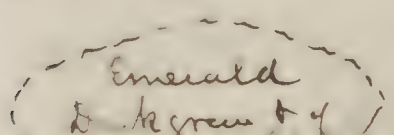
Last in list of Catalogue a statuette about 3 in high in Carnelian.

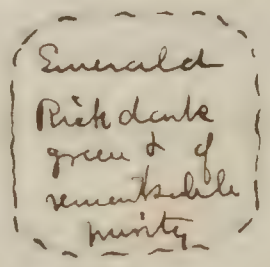
II Klasse. Mediæval Cameos. The last of Judith &c of 16th Cent. marked in Catalogue as "Chalcedon-Onyx". This has a clear chalcedony back with the relief figure of a milk white. Correctly named.

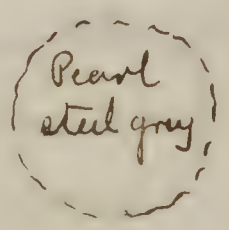
Most of the gems were unlabelled & without catalogue so that could learn nothing about them. But as usual in none of the antique stones were there any inscribed specimens. The ancients appear to be content with the superficial color & made no attempt to increase the beauty by cutting into facets. The faceted gem appears to be of comparatively modern origin.

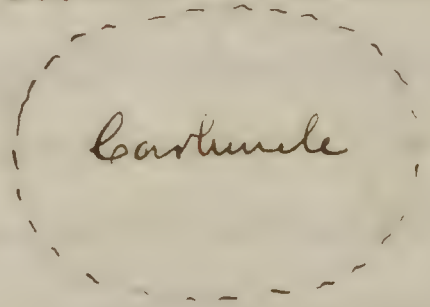
Paris Tuesd. Aug. 17, Wed. 18th. Examination of Jewelers' windows of Palais Royale.

Boucheron, Nos 152-154. Magnificent display in windows. Some remarkably large and deep colored Emeralds of great comparative purity and fine color. Several 3/4 of an inch. Steel colored pearl, as large as a nutmeg. Fine colored turquoises of good size. Large Carbuncles. A large pair of light colored Chrysoberyl? Cats eyes set around with pearls &c. One of the attendants informed me that the approximate value of the stones was about 2000 fr. each. Could not tell whether they were Chrysoberyl or Quartz, but said was of some kind on the Dark ones, but not of so much value. Remarkable ignorance of persons in relation to materials of their own business.



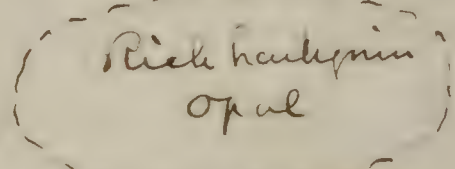






In windows of Boucheron.

Many of the jewelers' windows contain large pearls of a steel gray hue. Also some pale coral pink pearls noticed



Barry No63 Window with some fine opals; several fine yellow diamonds, of color of Rhine wine. Also some fine garnet cameos.

Dec. 1877. In Cesnola collection (Case 20) observed a neck chain of gold wire links with rectangular beads of sard or brown red carnelian ▭ with angles truncated. From chain was suspended a gold medalion with oval sard, with convex surface. In same case three beads of sard, one by gravity, te, all round, nine cut. Found in a Phenician tomb at Citium.

Localities of certain specimens in the Collection of the School of Mines, in the Russian Exhibit of the International Exhibition in 1876.

Yellow Beryl. Mursinska, Dist. of Katharinenburg, Urals.
Blue do Adun-Chilon, Dist. of Nerchinsk, Siberia.
Emerald. Emerald mine, Dist. of Kath'g. Ural.
Blue Topaz. Mursinska, Dist. of Kath. Ural.
Colorless Topaz. Mt. Urulga, Dist. of Miask, Urals, Siberia.
Pale greenish Topaz Mt Adun-Chilon, Dist. of Nerchinsk. Sib.
Red and rose colored Tourmaline. Shaitanska, Dist. of Katharinenburg, Urals.
Amazon stone, Ilmen Mt., Miask, Ural.
Lapis-lazuli. Riva Little Boyatrai, Irkutsk, Siberia